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INTRODUCTION

The Biomedical Research and Clinical Medicine Programs of the Space Medicine and Biology Branch, Life Sciences Division, located within the Office of Space Science and Applications of the National Aeronautics and Space Administration, were established to investigate the major physiological and psychological problems encountered by man as he undertakes spaceflight. These programs seek to obtain a better definition of each problem and understanding of its underlying mechanism, and ultimately, a means of resolution and prevention.

Research supported by these programs is documented in this bibliography. The Space Medicine and Biology Branch has reorganized its research tasks into new disciplines: research tasks from the twelve former Biomedical Research and Clinical Medicine subject areas are now organized under seven discipline working groups. The subject headings in this bibliography therefore reflect these new disciplines. The subject headings are: Clinical Medicine, Space Human Factors, Cardiopulmonary, Musculoskeletal, Neuroscience, Radiation and Environmental Health, and Regulatory Physiology. Publications from mid-1984 through 1986 (resulting from research sponsored under the previous subject areas) are included in this bibliography. Also included are publications of the Life Sciences Flight Program investigators relevant to these subject areas since these investigators now also fall under the new disciplines. Articles are listed alphabetically by author under the subject area with which they are most closely associated.

Our intent in compiling this bibliography is twofold. First, we would like to provide the scientific community with a listing of recent publications resulting from research pursued under the auspices of NASA's Biomedical Research and Clinical Medicine Programs. Secondly, we hope to stimulate an exchange of information and ideas among scientists working in the different areas of the program. To facilitate the exchange process, we have identified for each publication, by asterisk, the author participating in the program. Participating authors are listed on page 117 and an index of their papers is included.

We would like to thank all the participating authors for their publication lists. We would also like to thank Janice Susan Wallace for her editorial and technical expertise in the compilation of this bibliography.

Janis Stoklosa, Ph.D.
Biomedical Research Program Manager

CLINICAL MEDICINE

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A TOTAL PARENTERAL NUTRITION SYSTEM FOR EMERGENCY USE ABOARD THE SPACE STATION
HEALTH MAINTENANCE FACILITY (ABSTRACT).

AVIATION, SPACE, AND ENVIRONMENTAL MEDICINE

57(5): 503, 1986. (GWU 8022)

BUCHANAN*, P.

THE CLOSING GAP BETWEEN OCCUPATIONAL MEDICINE AND FLIGHT MEDICINE IN THE SPACE
STATION ERA.

SANGYO IKA DAIGAKU ZASSHI

7(SUPPL.): 237-244, 1985. (GWU 7704)

COLEMAN, B.; SIEGEL*, J.H.

STATISTICAL TREATMENT OF CLINICAL DATA.

IN: *TRAUMA: EMERGENCY SURGERY AND CRITICAL CARE* (SIEGEL, J.H., ED.). NEW YORK:

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DAVIS, J.E.; VROMAN, N.B.; TANKERSLEY, C.G.; FORTNEY*, S.M.

FOREARM VENOCONSTRICTOR RESPONSES FOLLOWING BEDREST (ABSTRACT).

AVIATION, SPACE, AND ENVIRONMENTAL MEDICINE

56(5): 489, 1985. (GWU 7939)

FORTNEY*, S.M.; DAVIS, J.E.; CARPENTER, A.J.; ROCK, J.A.

THE LACK OF AN AFFECT OF ELEVATED ESTROGENS ON EXERCISE THERMOREGULATION
(ABSTRACT).

FEDERATION PROCEEDINGS

45(4): 529, 1986. (GWU 8069)

FORTNEY*, S.M.; ROCK, J.A.; VROMAN, N.B.; DREW, H.; LaFRANCE, N.

PLASMA VOLUME MAINTENANCE DURING BEDREST IN WOMEN RECEIVING PREMARIN
(ABSTRACT).

AVIATION, SPACE, AND ENVIRONMENTAL MEDICINE

56(5): 489, 1985. (GWU 7938)

GAISER, K.; DARDANO, J.; PIERSON*, D.

DEVELOPMENT OF A SAMPLING STRIP FOR AIRBORNE PARTICULATES IN ORBITER AIR
(ABSTRACT).

AVIATION, SPACE, AND ENVIRONMENTAL MEDICINE

56(5): 493, 1985. (GWU 7950)

GAISER, K.K.; GROVES, T.O.; HENNEY, M.R.; SCARLETT, J.B.; MOLINA, T.C.;

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AVIATION, SPACE, AND ENVIRONMENTAL MEDICINE

57(5): 503, 1986. (GWU 8019)

GALEN, T.J. (PIERSON, D.L. = P.I.)

SOLID SORBENT AIR SAMPLER - PATENT (ABSTRACT). US-PATENT-4,584, 887

7 P., APRIL 29, 1986. (GWU 7948)

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INFLIGHT SHUTTLE ATMOSPHERIC SAMPLES COLLECTED WITH THE SOLID SORBENT AIR SAMPLER (ABSTRACT).

AVIATION, SPACE, AND ENVIRONMENTAL MEDICINE

57(5): 503, 1986. (GWU 8020)

JAWEED, M.M.; HERBISON*, G.J.; DITUNNO, J.F.

QUANTITATIVE EVALUATION OF WRIST-EXTENSOR MUSCLE STRENGTH IN QUADRIPLAGIC HUMAN SUBJECTS (ABSTRACT).

FEDERATION PROCEEDINGS

45(4): 547, 1986. (GWU 8066)

LOYD*, O.H.; COX, W.; DOERR, D.; MELKER, R.; CAVALLARO, D.

AUTOMATING CPR IN SPACE (ABSTRACT).

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LOYD*, O.H.; ROSBOROUGH, J.P.; NIEMANN, J.T.; COX, W.

RESUSCITATION BY EXTERNAL THORACOABDOMINAL PUMPING: DEVELOPMENT FOR AEROSPACE APPLICATION (ABSTRACT).

AVIATION, SPACE, AND ENVIRONMENTAL MEDICINE

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MIESCHER, E.; CARPENTER, A.J.; TANKERSLEY, C.G.; LEVINE, K.;

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THERMOREGULATORY RESPONSE TO EXERCISE AT DIFFERENT PHASES OF THE MENSTRUAL CYCLE (ABSTRACT).

FEDERATION PROCEEDINGS

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PIERSON*, D.L.; GALEN, T.J.

DESIGN AND EVALUATION OF A SOLID SORBENT AIR SAMPLER.

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VROMAN, N.B.; BECKETT, W.S.; PERMUTT, S.; FORTNEY*, S.

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AMERICAN JOURNAL OF PHYSIOLOGY
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62: 141-151, 1985. (GWU 8413)

BOUTELLIER, U.; FARHI*, L.E.

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JOURNAL OF APPLIED PHYSIOLOGY

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MEDICINE AND SCIENCE IN SPORTS AND EXERCISE

18(4): 396-401, 1986. (GWU 7803)

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EFFECTS OF A 12-WEEK STRENGTH-BUILDING PROGRAM ON CARDIOVASCULAR RESPONSES TO LOWER-BODY NEGATIVE PRESSURE (ABSTRACT).

AVIATION, SPACE, AND ENVIRONMENTAL MEDICINE

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COMPUTERS IN CARDIOLOGY

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BUCKEY*, J.C.; WATENPAUGH, D.E.; KIM, L.T.; SMITH, M.L.; GAFFNEY*, F.A.;

BLOMQVIST*, C.G.

INITIAL EXPERIENCE WITH A NEW PLETHYSMOGRAPH FOR ZERO-G USE.

PHYSIOLOGIST

28(6, SUPPL.): S145-S146, 1985. (GWU 6878)

**BUCKEY*, J.C.; WATENPAUGH, D.E.; KIM, L.T.; SMITH, M.L.; GAFFNEY*, F.A.;
BLOMQVIST*, C.G.**

INITIAL EXPERIENCE WITH A NEW PLETHYSMOGRAPH FOR ZERO-G USE (ABSTRACT).

PHYSIOLOGIST

28(4): 313, 1985. (GWU 7326)

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BLOMQVIST*, C.G.**

CENTRAL VENOUS PRESSURE DURING A SIMULATED SHUTTLE LAUNCH PROFILE (ABSTRACT).

IN: *PROGRAM AND ABSTRACTS, SECOND ANNUAL MEETING OF THE AMERICAN SOCIETY FOR
GRAVITATIONAL AND SPACE BIOLOGY*, CHARLOTTESVILLE, VA, OCTOBER 1-3, 1986, P. 36.

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PHYSICAL FITNESS AS A DETERMINANT OF ADRENERGIC FUNCTION (ABSTRACT).

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AVIATION, SPACE, AND ENVIRONMENTAL MEDICINE

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CARDIOVASCULAR DECONDITIONING DURING SPACE FLIGHT AND THE USE OF SALINE
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AVIATION, SPACE, AND ENVIRONMENTAL MEDICINE

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**BUNGO*, M.W.; CHARLES*, J.B.; RIDDLE, J.; ROESCH, J.; WOLF, D.A.;
SEDDON, R.**

ECHOCARDIOGRAPHIC INVESTIGATION OF THE HEMODYNAMICS OF WEIGHTLESSNESS
(ABSTRACT).

JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY

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HUMAN ECHOCARDIOGRAPHIC EXAMINATIONS DURING SPACEFLIGHT (ABSTRACT).

AVIATION, SPACE, AND ENVIRONMENTAL MEDICINE

57(5): 494, 1986. (GWU 8018)

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BIOCHEMICAL EFFECTS OF ORAL SALINE CONSUMPTION AS A COUNTERMEASURE TO POST-SPACE
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AVIATION, SPACE, AND ENVIRONMENTAL MEDICINE

56(5): 481, 1985. (GWU 7930)

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CHANGES IN ORTHOSTATIC HEART RATE AND HEART SIZE IN HUMANS AS A FUNCTION OF SPACE FLIGHT DURATION (ABSTRACT).

PHYSIOLOGIST

28(4): 315, 1985. (GWU 7095)

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AVIATION, SPACE, AND ENVIRONMENTAL MEDICINE

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AVIATION, SPACE, AND ENVIRONMENTAL MEDICINE

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CARDIAC DIMENSIONS AND ORTHOSTATIC HEART RATE AS A FUNCTION OF TIME IN MICROGRAVITY (ABSTRACT).

IN: *ABSTRACTS OF PAPERS, PHYSIOLOGIC ADAPTATION OF MAN IN SPACE, 7TH INTERNATIONAL MAN IN SPACE SYMPOSIUM*, HOUSTON, TX, FEBRUARY 10-13, 1986, 2 P. (GWU 7771)

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AVIATION, SPACE, AND ENVIRONMENTAL MEDICINE

57(5): 493, 1986. (GWU 8014)

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AVIATION, SPACE, AND ENVIRONMENTAL MEDICINE

56(3): 212-219, 1985. (GWU 6272)

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FLUID AND ELECTROLYTE RESPONSE OF A PRIMATE MODEL TO LOWER BODY POSITIVE PRESSURE INDUCED CENTRAL VOLUME EXPANSION (ABSTRACT).

PHYSIOLOGIST

28(4): 346, 1985. (GWU 8436)

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FLUID AND ELECTROLYTE RESPONSES IN A PRIMATE MODEL (LBNP) FOR WEIGHTLESSNESS-INDUCED CENTRAL VOLUME EXPANSION (ABSTRACT).

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POTENTIAL BENEFITS OF MAXIMAL EXERCISE JUST PRIOR TO RETURN FROM WEIGHTLESSNESS (ABSTRACT).

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AVIATION, SPACE, AND ENVIRONMENTAL MEDICINE

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EXERCISE CAPACITY FOLLOWING SIMULATED WEIGHTLESSNESS IN TRAINED AND NONTRAINED SUBJECTS (ABSTRACT).

AVIATION, SPACE AND ENVIRONMENTAL MEDICINE

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MEDICINE AND SCIENCE IN SPORTS AND EXERCISE

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AVIATION, SPACE, AND ENVIRONMENTAL MEDICINE

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